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September 2008 issue Volume 51 Issue 9

Publisher: ACM

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Bibliometrics: Downloads (6 Weeks): 13658, Downloads (12 Months): 13658, Citation Count: 0

2 [Computing graphical queries over XML data](#)

Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 ACM Transactions on Information Systems (TOIS), Volume 19 Issue 4

Publisher: ACM

Full text available: [Pdf](#) (707.80 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 68, Citation Count: 12

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be ...

Keywords: Document restructuring, graphical query languages, semantics

3 [The state of the art in locally distributed Web-server systems](#)

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 2

Publisher: ACM

Full text available: [Pdf](#) (1.41 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 93, Downloads (12 Months): 695, Citation Count: 27

The overall increase in traffic on the World Wide Web is augmenting user-perceived response time on popular Web sites, especially in conjunction with special events. System platforms that do not reorganize information content cannot provide the needed ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

4 [External memory algorithms and data structures: dealing with massive data](#)

Jeffrey Scott Vitter

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM

Full text available: [Pdf](#) (828.46 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 132, Downloads (12 Months): 911, Citation Count: 77

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and external memory (such as disks) can be a major performance ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, h memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary s sorting

## 5 [High parallelism, portability, and broad accessibility: Technologies for genomics](#)



Carlotta Guiducci, Christine Nardini

March 2008 ACM Journal on Emerging Technologies in Computing Systems (JETC), Volume 4  
Publisher: ACM

Full text available: Pdf (3.84 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 274, Citation Count: 0

Biotechnology is an area of great innovations that promises to have deep impact on everyday life to profound changes in biology, medicine, and health care. This article will span from the descriptive biochemical principles of molecular ...

Keywords: Genomics, biosensors, microarrays, point-of-care diagnostics

## 6 [Communications of the ACM: Volume 51 Issue 10](#)



October 2008 issue Volume 51 Issue 10

Publisher: ACM

Full text available: Digital Edition , Pdf (7.16 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 190, Downloads (12 Months): 190, Citation Count: 0

## 7 [Communications of the ACM: Volume 51 Issue 8](#)



August 2008 issue Volume 51 Issue 8

Publisher: ACM

Full text available: Digital Edition , Pdf (6.85 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 1545, Downloads (12 Months): 1545, Citation Count: 0

## 8 [Communications of the ACM: Volume 51 Issue 1](#)



January 2008 issue Volume 51 Issue 1

Publisher: ACM

Full text available: Digital Edition , Pdf (5.97 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 533, Downloads (12 Months): 3921, Citation Count: 0

## 9 [GPGPU: general purpose computation on graphics hardware](#)



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aa August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: Pdf (63.03 MB)


Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 171, Downloads (12 Months): 1419, Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely and flexible processor. The latest graphics architectures provide tremendous memory bandwidth

computational horsepower, with fully programmable vertex ...

#### 10 The elements of nature: interactive and realistic techniques

-  Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug F. Stam, Jerry Tessendorf  
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
Publisher: ACM


Full text available:  Pdf (17.65 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 136, Downloads (12 Months): 1369, Citation Count: 1

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...

#### 11 Level set and PDE methods for computer graphics

-  David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker  
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
Publisher: ACM


Full text available:  Pdf (17.07 MB)


Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 150, Downloads (12 Months): 1058, Citation Count: 4

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course includes preparatory material that introduces the ...

#### 12 A graphical environment for the design of concurrent real-time systems

-  L. E. Moser, Y. S. Ramakrishna, G. Kutty, P. M. Melliar-Smith, L. K. Dillon  
January 1997 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 6, Number 1  
Publisher: ACM

Full text available:  Pdf (759.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 74, Citation Count: 10

Concurrent real-time systems are among the most difficult systems to design because of the many possible interleavings of events and because of the timing requirements that must be satisfied. We have developed a graphical environment based on Real-Time ...

Keywords: automated deduction, concurrent systems, formal specification and verification, graphical interface, real-time systems, temporal logic

#### 13 Integrating document and data retrieval based on XML

- Jan-Marco Bremer, Michael Gertz  
January 2006 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 15, Number 1  
Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (841.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 208, Citation Count: 1

For querying structured and semistructured data, data retrieval and document retrieval are two complementary techniques that have not yet been fully integrated. In this paper, we introduce integrated information retrieval (IIR), an XML-based ...

Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrieval, Structural join, XML

14 [Formalizing the safety of Java, the Java virtual machine, and Java card](#)

Pieter H. Hartel, Luc Moreau

December 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 4

Publisher: ACM

Full text available: Pdf (442.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index te](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 376, Citation Count: 12

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good has been done, a more concerted effort is ...

Keywords: Common criteria, programming

15 [Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona](#)

Thomas Haigh

January 2006 ACM Oral History interviews

Publisher: ACM

Full text available: Pdf (974.87 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 81, Downloads (12 Months): 507, Citation Count: 0

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent 1 year in the Southwest Pacific Theater, during ...

16 [Geometric modeling based on polygonal meshes](#)**Video files associated with this course are available from the citation page**Mario Botsch, Mark Pauly, Leif Kobbelt, Pierre Alliez, Bruno Lévy, Stephan Bischoff, Christian Rössl  
August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses

Publisher: ACM

Full text available: Pdf (44.53 MB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 125, Downloads (12 Months): 1233, Citation Count: 0

In the last years triangle meshes have become increasingly popular and are nowadays intensive in many different areas of computer graphics and geometry processing. In classical CAGD irregular meshes developed into a valuable alternative ...

17 [Communications of the ACM: Volume 51 Issue 7](#)

July 2008 issue Volume 51 Issue 7

Publisher: ACM

Full text available: Digital Edition , Pdf (6.54 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 3973, Downloads (12 Months): 4442, Citation Count: 0

18 [Queue: Volume 6 Issue 3](#)


May 2008 issue Volume 6 Issue 3

Publisher: ACM

Full text available: Digital Edition , Pdf (5.56 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 163, Downloads (12 Months): 243, Citation Count: 0

19 [High dynamic range imaging](#)

 Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik  
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
Publisher: ACM


Full text available:  Pdf (20.22 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 82, Downloads (12 Months): 772, Citation Count: 0

Current display devices can display only a limited range of contrast and colors, which is one of the reasons that most image acquisition, processing, and display techniques use no more than eight color channels. This course outlines recent ...

20 [Searching the Web](#)

 Arvind Arasu, Junghoo Cho, Hector Garcia-Molina, Andreas Paepcke, Sriram Raghavan  
August 2001 ACM Transactions on Internet Technology (TOIT), Volume 1 Issue 1  
Publisher: ACM

Full text available:  Pdf (319.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 629, Citation Count: 63

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

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